



DOCKET NO.: B1102.70027US00

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Miller, et al.  
Serial No.: 10/664,046  
Confirmation No.: 2591  
Filed: September 16, 2003  
For: DETERMINATION AND/OR CONTROL OF REACTOR  
ENVIRONMENTAL CONDITIONS

Examiner: Nathan A. Bowers  
Art Unit: 1744

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**CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)**

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to MAIL STOP AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the 24 day of July, 2007.

  
Signature

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**MAIL STOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**STATEMENT FILED PURSUANT TO THE DUTY OF  
DISCLOSURE UNDER 37 C.F.R. §§1.56, 1.97 AND 1.98**

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the Applicants request consideration of this Information Disclosure Statement.

**PART I: Compliance with 37 C.F.R. §1.97**

This Information Disclosure Statement has been filed more than three months after the filing date of this application and after the mailing date of the first Office action, but before the mailing date of any final action under 37 C.F.R. §1.113, a Notice of Allowance under 37 C.F.R. §1.311, or an action that otherwise closes prosecution in this application.

The fee of \$180.00 as set forth in 37 C.F.R. §1.17(p) is enclosed.

07/31/2007 SSITHIB1 00000079 10664046

01 FC:1806

180.00 0P

PART II: Information Cited

The Applicants hereby make of record in the above-identified application the information listed on the attached form PTO-1449 (modified PTO/SB/08). The order of presentation of the references should not be construed as an indication of the importance of the references.

The Applicants hereby make the following additional information of record in the above-identified application.

The Applicants would like to bring to the Examiner's attention the following co-pending applications that may contain subject matter related to this application:

<u>Serial No.</u>	<u>Filing Date</u>	<u>Inventor(s)</u>	
11/500,573	August 7, 2006	Zarur, et al.	B1102.70024US01
11/584,343	October 20, 2006	Miller et al.	B1102.70011US01

PART III: Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The enclosed form PTO-1449 (modified PTO/SB/08) be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;
3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicants make no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

By submitting this Information Disclosure Statement, the Applicants make no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

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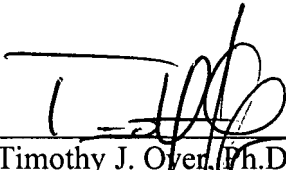
By submitting this Information Disclosure Statement, the Applicants make no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by the Applicants, the Examiner is urged to form his or her own conclusion regarding the relevance of the cited information.

An early and favorable action is hereby requested.

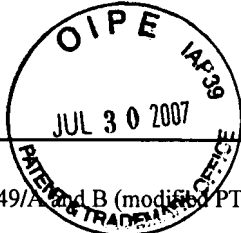
Respectfully submitted,

By:



\_\_\_\_\_  
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Docket No.: B1102.70027US00  
Date: July 26, 2007  
**xNDDx**



FORM PTO-1449/A and B (modified PTO/SB/08)  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				APPLICATION NO.: 10/664,046		ATTY. DOCKET NO.: B1102.70027US00	
				FILING DATE: September 16, 2003		CONFIRMATION NO.: 2591	
				APPLICANT: Miller, et al.			
				GROUP ART UNIT: 1744		EXAMINER: Nathan A. Bowers	
Sheet	1	of	2				

#### U.S. PATENT DOCUMENTS

Examiner's Initials #	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or Issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
		5,047,213		Finlan et al.	09-10-1991
		5,173,225		Range, et al.	12-22-1992
		5,254,143		Anazawa, et al.	10-19-1993
		5,589,350		Bochner	12-31-1996
		5,593,632		Kagawa	01-14-1997
		6,025,601		Trulson et al.	02-15-2000
		6,174,675	B1	Chow et al.	01-16-2001
		6,221,226	B1	Kopf-Sill	04-24-2001
		6,221,654	B1	Quake et al.	04-24-2001
		6,339,023	B1	Kitazaki et al.	01-15-2002
		6,440,722	B1	Knapp et al.	08-27-2002
		6,537,799	B2	Chow et al.	03-25-2003
		6,547,941	B2	Kopf-Sill et al.	04-15-2003
		6,555,365	B2	Barbera-Guillem, et al.	04-29-2003
		6,558,944	B1	Parce et al.	05-06-2003
		6,592,733	B1	Foley et al.	07-15-2003
		6,614,030	B2	Maher et al.	09-02-2003
		6,806,543	B2	Yamakawa, et al.	10-19-2004
		7,005,292	B2	Wilding, et al.	02-28-2006
		7,033,819	B2	Kim, et al.	04-25-2006
		7,033,821	B2	Kim, et al.	04-25-2006
		7,090,003	B2	Beebe et al.	08-15-2006
		2001/0024821	A1	Potter	09-27-2001
		2002/0069619	A1	Abasolo, et al.	06-13-2002
		2002/0069620	A1	Abasolo	06-13-2002
		2002/0072113	A1	Barbera-Guillem, et al.	06-13-2002
		2002/0176804	A1	Strand et al.	11-28-2002
		2002/0185431	A1	Karp	12-12-2002
		2002/0187560	A1	Pezzuto, et al.	12-12-2002
		2003/0005877	A1	David	01-09-2003
		2003/0091476	A1	Zhou et al.	05-15-2003
		2003/0129646	A1	Briscoe et al.	07-10-2003
		2003/0138829	A1	Unger et al.	07-24-2003
		2004/0072363	A1	Schembri	04-15-2004
		2004/0197905	A1	Hafeman	10-07-2004
		2006/0188979	A1	Spaid et al.	08-24-2006
		2006/0199260	A1	Zhang, et al.	09-07-2006

<b>FORM PTO-1449/A and B (modified PTO/SB/08)</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				APPLICATION NO.: 10/664,046	ATTY. DOCKET NO.: B1102.70027US00
				FILING DATE: September 16, 2003	CONFIRMATION NO.: 2591
				APPLICANT: Miller, et al.	
				GROUP ART UNIT: 1744	EXAMINER: Nathan A. Bowers
Sheet	2	of	2		

		2006/0246493	A1	Jensen et al.	11-02-2006
		2006/0270023	A1	LeDuc, et al.	11-30-2006

#### FOREIGN PATENT DOCUMENTS

Examiner's Initials #	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			
		JP	62079831		Matsushita Electric Ind. Co. Ltd.	04-12-1987	
		WO	94/11489	A1	Biolog, Inc.	05-26-1994	
		WO	00/03805	A1	Com-Bichem, Inc.	01-27-2000	
		WO	01/38559	A2	3M Innovative Properties Company	05-31-2001	
		WO	01/54813	A2	Clinical Micro Sensors, Inc.	08-02-2001	
		WO	02/11880	A2	Fraunhofer-Gesellschaft Zur Förderung der Angewandten Forschung E.V.	02-14-2002	
		WO	02/057200	A2	Bioforce Laboratory, Inc.	07-25-2002	
		WO	04/009226	A1	Canon Kabushiki Kaisha	01-29-2004	

#### OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials #	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
		HAYAKAWA, Y., et al. "Synthesis of Poly (phenylacetylene)s Containing Trifluoromethyl Groups for Gas Permeable Membrane," <i>Journal of Polymer Science</i> , Vol. 30, pp. 873-877	
		PINNAU, I., et al. "Influence of Side-Chain Length on the Gas Permeation Properties of Poly(2- alkylacetylenes)," <i>Macromolecules</i> , Vol. 37, pp. 2823-2828	
		Office Action dated December 11, 2006 in 10/457,049	
		Office Action dated January 5, 2007 in 09/707,852	
		Office Action dated April 12, 2007 in 09/707,852	
		International Search Report dated December 2, 2005, for PCT/US05/019914, filed June 7, 2005	

EXAMINER:	DATE CONSIDERED:
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# EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

\*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. \_\_, filed \_\_, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

[NOTE – No copies of U.S. patents, published U.S. patent applications, or pending, unpublished patent applications stored in the USPTO's Image File Wrapper (IFW) system, are included. See 37 CFR §1.98 and 1287OG163. Copies of all other patent(s), publication(s), unpublished, pending U.S. patent applications, or other information listed are provided as required by 37 CFR §1.98 unless 1) such copies were provided in an IDS in an earlier application that complies with 37 CFR §1.98, and 2) the earlier application is relied upon for an earlier filing date under 35 U.S.C. §120.]



Under the Paperwork Reduction Act of 1995, no person are required to respond to a collection of information unless it displays a valid OMB control number.

<b>Effective on 12/08/2004.</b> <b>Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).</b> <b>FEE TRANSMITTAL</b> <b>For FY 2007</b>		<b>Complete if Known</b>	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Application Number	10/664,046-Conf. #2591
TOTAL AMOUNT OF PAYMENT		Filing Date	September 16, 2003
(\$)		First Named Inventor	Scott E. Miller
180.00		Examiner Name	N. A. Bowers
		Art Unit	1744
		Attorney Docket No.	B1102.70027US00

**METHOD OF PAYMENT (check all that apply)**

☒ Check    ☐ Credit Card    ☐ Money Order    ☐ None    ☐ Other (please identify): \_\_\_\_\_

☐ Deposit Account    Deposit Account Number: 23/2825    Deposit Account Name: Wolf, Greenfield & Sacks, P.C.

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below    ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17    ☒ Credit any overpayments

**FEE CALCULATION**

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES**

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

**Total Claims**    **Extra Claims**    **Fee (\$)**    **Fee Paid (\$)**    **Multiple Dependent Claims**

\_\_\_\_\_ - 20 = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_    **Fee (\$)**    **Fee Paid (\$)**

HP = highest number of total claims paid for, if greater than 20.

**Indep. Claims**    **Extra Claims**    **Fee (\$)**    **Fee Paid (\$)**

\_\_\_\_\_ - 3 = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

**Total Sheets**    **Extra Sheets**    **Number of each additional 50 or fraction thereof**    **Fee (\$)**    **Fee Paid (\$)**

\_\_\_\_\_ - 100 = \_\_\_\_\_ / 50 = \_\_\_\_\_ (round up to a whole number) x \_\_\_\_\_ = \_\_\_\_\_

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): 1806 Submission of an Information Disclosure Statement    **Fees Paid (\$)**    180.00

<b>SUBMITTED BY</b>			
Signature		Registration No. (Attorney/Agent)	36,628
Name (Print/Type)	Timothy J. Oyer, Ph.D.	Telephone	(617) 646-8000
		Date	July 26, 2007

**Certificate of Mailing Under 37 CFR 1.8(a)**

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as First Class Mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated: 7/26/07    Signature: (E. J. Poole)